



Gp/2621

#2

PATENT  
Attorney Docket No. MIT-131

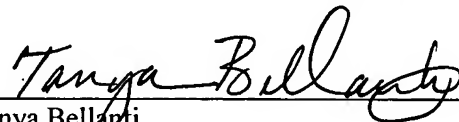
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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JUL 18 2002  
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APPLICANT(S): Wolfson et al.  
SERIAL NO.: 10/079,995 GROUP NO.: 2621  
FILING DATE: February 19, 2002 EXAMINER: Not yet assigned  
TITLE: METHOD AND APPARATUS FOR SHORT-TERM PREDICTION  
OF CONVECTIVE WEATHER

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, Washington, DC 20231 on this 10th day of July, 2002.

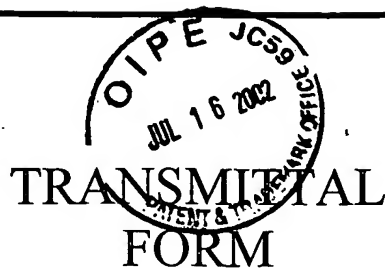
  
Tanya Bellanti

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Submitted herewith is/are:

- Certificate of First Class Mailing Under 37 C.F.R. 1.8 (1 pg.);
- Transmittal Form (1 pg.);
- Information Disclosure Statement (2 pgs.);
- Form PTO-1449 (2 pgs.);
- Copies of Cited References (A1-A3, C1-C12); and
- A Return-Receipt Postcard.



Application Serial Number	10/079,995
Filing Date	February 19, 2002
First Named Inventor	Marilyn Wolfson
Group Art Unit	2621
Examiner Name	Not yet assigned
Attorney Docket No.	MIT-131
Patent No.	Not applicable
Issue Date	Not applicable

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**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form  <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]  <input type="checkbox"/> Petition for Extension of Time  <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations (A1-A3, C1-C12)  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)  <input type="checkbox"/> Formal Drawing(s)  <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal  <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> CD(s) for large table or computer program  <input type="checkbox"/> Amendment After Allowance  <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences  <input type="checkbox"/> Appeal Brief (in triplicate)  <input type="checkbox"/> Status Inquiry  <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8  <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8  <input type="checkbox"/> Additional Enclosure(s) (please identify below)
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**CORRESPONDENCE ADDRESS**

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 High Street Tower  
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 Boston, MA 02110  
 Tel. No.: (617) 248-7000  
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**SIGNATURE BLOCK**

Respectfully submitted,  
  
 Date: July 10, 2002  
 Reg. No. 36,471  
 Tel. No.: (617) 248-7369  
 Fax No.: (617) 248-7100  
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PATENT  
Attorney Docket No. MIT-131

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Wolfson et al.  
SERIAL NO.: 10/079,995 GROUP NO.: 2621  
FILING DATE: February 19, 2002 EXAMINER: Not yet assigned  
TITLE: Method and Apparatus For Short-Term Prediction Of Convective Weather

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Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

### STATEMENT


As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

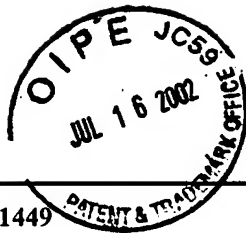
- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Date: July 10, 2002  
Reg. No. 36,471

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\_\_\_\_\_  
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<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>				ATTORNEY DOCKET NO.: MIT-131 APPLICANT(S): Wolfson et al. SERIAL NO.: 10/079,995 FILING DATE: February 19, 2002 GROUP: 2621					
<b>U.S. PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	A1	5,959,567	09/28/99	Wolfson et al.	342	26	12/08/97		
	A2	6,128,578	10/03/00	Sakaino et al.	702	3	11/04/97		
	A3	6,340,946B1	01/22/02	Wolfson et al.	342	26	08/03/00		
<b>FOREIGN PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
EXAM. INIT.	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>								
	C1	Cartwright et al., <i>The FAA Terminal Convective Weather Forecast Product: Scale Separation Filter Optimization</i> 29 <sup>th</sup> International Conference on Radar Meteorology, Montreal, Quebec (1999), pp. 852-855.							
	C2	Dixon et al., <i>TITAN: Thunderstorm Identification, Tracking, Analysis, and Nowcasting-A Radar-Based Methodology</i> American Meteorological Society, Vol. 10 (1993), pp. 785-797.							
	C3	Forman et al., <i>Aviation User Needs for Convective Weather Forecasts</i> 8 <sup>th</sup> Conference on Aviation Meteorology, Dallas, TX (1999), pp. 526-530.							
	C4	GANDI: <i>Growth AND Initiation</i> , Personal communication with Wilson et al., at the National Center for Atmospheric Research (February 2001).							
	C5	Hand et al., <i>An Object-Oriented Approach to Nowcasting Showers</i> Weather and Forecasting, Vol. 10 (1995), pp. 327-341.							
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>				

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<b>FORM PTO - 1449</b>		<b>ATTORNEY DOCKET NO.:</b> MIT-131
<b>INFORMATION DISCLOSURE STATEMENT</b>		<b>APPLICANT(S):</b> Wolfson et al.
		<b>SERIAL NO.:</b> 10/079,995
		<b>FILING DATE:</b> February 19, 2002
		<b>GROUP:</b> 2621
<b>U.S. PATENT DOCUMENTS</b>		
	C6	Mueller et al., <i>Evaluation of the NCAR Thunderstorm Auto-Nowcast System</i> <i>American Meteorological Society 9<sup>th</sup> Conference on Aviation Range and Aerospace Meteorology (AROM)/20<sup>th</sup> Conference on Severe Local Storms (SLS) Joint Session (2001).</i>
	C7	Peak et al., <i>Toward Automated Interpretation of Satellite Imagery for Navy Shipboard Applications</i> <i>Bulletin of the American Meteorological Society</i> , Vol. 73, no. 7 (1992), pp. 995-1008.
	C8	Pierce et al., <i>GANDOLF: a System for Generating Automated Nowcasts of Convective Precipitation</i> <i>Meteorological Applications</i> , vol. 7 (2000), pp. 341-360.
	C9	Roberts, <i>Detecting and Forecasting Cumulus Cloud Growth Using Radar and Multi-Spectral Satellite Data</i> <i>28<sup>th</sup> Conference on Radar Meteorology</i> , Austin TX, American Meteorological Society (1997), pp. 408-409.
	C10	Theriault et al., <i>FAA Terminal Convective Weather Forecast Algorithm Assessment</i> <i>American Meteorological Society 9<sup>th</sup> Conference on Aviation Range and Aerospace Meteorology (AROM)/</i> <i>20<sup>th</sup> Conference on Severe Local Storms (SLS) Joint Session (2001).</i>
	C11	Wilson et al., <i>Nowcasting Thunderstorms: A Status Report</i> , <i>Bulletin of the American Meteorological Society</i> , Vol. 79, no. 10 (October 1998), pp. 2080-2099.
	C12	Wolfson et al., <i>The Growth and Decay Storm Tracker</i> , <i>8<sup>th</sup> Conference on Aviation Meteorology</i> , Dallas, TX (1999), pp. 58-62.
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>

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